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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/606,484 06/26/2003 210\_588 5630 Lynn A, Turner EXAMINER 05/17/2004 WALL MARJAMA & BILINSKI TANNER, HARRY B 101 SOUTH SALINA STREET ART UNIT PAPER NUMBER **SUITE 400** 

> 3744 DATE MAILED: 05/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

:	Application No.	Applicant(s)
Office Action Summary	10/606,484	TURNER ET AL.
	Examiner	Art Unit
	Harry B. Tanner	3744
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).
Status :		
1) Responsive to communication(s) filed on		
2a)☐ This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under E	ix parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.
Disposition of Claims		
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdray  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-20 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examine		
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.		
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been receiv u (PCT Rule 17.2(a)).	tion No ved in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summar Paper No(s)/Mail [	
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 6/26/03.</li> </ul>		Patent Application (PTO-152)

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bahel et al (5,303,561) in view of Dudley et al. Bahel discloses the invention substantially as claimed. Bahel discloses a heat pump system in which the indoor fan speed is adjusted in response to outdoor air temperature (see Figure 3) such that the fan speed increases as the outdoor temperature increases. Dudley teaches the use of an indoor fan speed control that provides continuous adjustment of fan speed in order to provide accurate regulation of fan speed (see Figure 3). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the system of Bahel such that it included the use of an indoor fan speed control that provides continuous adjustment of fan speed in order to provide accurate regulation of fan speed in view of the teachings of Dudley. The manner of speed control in response to outdoor temperature in the Bahel system is the same as that of applicant's system. It is inherent that such a control scheme (namely, fan speed increases as the outdoor temperature increases) will help maintain both the indoor coil temperature and compressor discharge pressure within desired limits with changing outdoor temperature and thus avoid a cold blow condition. It would have been obvious to one of ordinary

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skill in the art at the time the invention was made to design the system such that operation limits are within established standard limits for refrigeration grade vapor line piping and reliable operation of the compressor. The specific limits recited in claim 5 have not been shown to produce new and unexpected results and are considered to be well within the ability of one of ordinary skill in the art to obtain through routine experimentation.

Harry Tanner May 14, 2004 703-308-2622 Harry B. Tanner
Primary Examiner